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Display Research Conference, 1991., Conference Record of the 1991 International, 15-17 Oct. 1991

Pages:247 - 250

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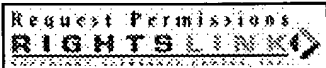
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Takahashi, K. Ushiki, T. Sugiyama, J. Ushiyama, T. Ono, N. Araki, T. Kaneko, K. Oguchi, K.

Seiko Epson Corp., Nagano, Japan;

This paper appears in: Display Research Conference, 1991., Conference I the 1991 International

Meeting Date: 10/15/1991 - 10/17/1991

Publication Date: 15-17 Oct. 1991

Location: San Diego, CA USA

On page(s): 247 - 250

Reference Cited: 4

Inspec Accession Number: 4234184

Abstract:

A novel lateral MIM-LCD, (liquid crystal display) has been developed which has a pixel density (about 270 dpi) and a high contrast ratio over a wide temperature range (over 130:1 from 0°C-80°C). Two types of lateral MIM-LCD are presented: a 4.2-in-diagonal, 640-pixel×240-pixel LCD with each pixel addressed by eight parallel-lateral-MIMs and a 2.98-in-diagonal 640-pixel×480 pixel LCD with each pixel addressed by back-to-back lateral MIM. This lateral MIM can be used for an electric view finder or a light valve because the pixel-size can be designed to be sufficiently small and can attain high aperture ratio. In addition, the redundancy of pixel defects can be improved when fabricating displays such as the full color workstation display.

Index Terms:

0 to 80 degC 153600 pixel 2.98 inch 240 pixel 307200 pixel 4.2 inch 480 pixel 640 pixel workstation display contrast ratio electric view finder lateral MIM-LCD light valve liquid crystal displays metal-insulator-metal devices pixel defects redundancy

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